A ...

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- Key terms
Claim 37
     FILE 'CAPLUS' ENTERED AT 15:05:00 ON 18 APR 2000
              2 SEA ABB=ON PLU=ON NGSP
L1
           3344 SEA ABB=ON PLU=ON (NEISSER? OR N) (W) (GONORRH? OR
L2
                GONOCOCC?)
              7 SEA ABB=ON PLU=ON (L1 OR L2)(3A)(POLYPEPTIDE OR
L3
                POLYPROTEIN OR POLY(W) (PEPTIDE OR PROTEIN))
             16 SEA ABB=ON PLU=ON (L1 OR L2) (10A) (POLYPEPTIDE OR
L4
                POLYPROTEIN OR POLY(W) (PEPTIDE OR PROTEIN))
             16 SEA ABB=ON PLU=ON L3 OR L4
L5
     ANSWER 1 OF 16 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER:
                         2000:161171 CAPLUS
DOCUMENT NUMBER:
                         132:212704
TITLE:
                         Neisseria gonorrhoeae
                       polypeptides and nucleic acid sequences
                         for vaccines
INVENTOR(S):
                         Jackson, W. James; Harris, Andrea M.
                         Antex Biologics Inc., USA
PATENT ASSIGNEE(S):
SOURCE:
                         PCT Int. Appl., 69 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                     KIND DATE
                                           APPLICATION NO. DATE
                                           -----
                                           WO 1999-US20070 19990901
     WO 2000012133
                     A1
                            20000309
            AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,
             CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG,
             SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                           US 1998-98685
                                                            19980901
     The invention discloses a Neisseria gonorrhoeae
     polypeptide (NGSP), polypeptides derived
     therefrom (NGSP-derived polypeptides),
     nucleotide sequences encoding said polypeptides, and
     antibodies that specifically bind the NGSP
     polypeptide and/or NGSP-derived
     polypeptides. Also disclosed are prophylactic or
     therapeutic compns., including antigenic, preferably immunogenic
     compns., e.g. , vaccines, comprising NGSP
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Shears 308-4994

polypeptide and/or a NGSP-derived

polypeptide or antibodies thereto. The invention addnl.

Searcher :

discloses methods of inducing an immune response to Neisseria and Neisseria NGSP polypeptide and an NGSP -derived polypeptide in animals.

L5 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1999:632019 CAPLUS

DOCUMENT NUMBER: 131:333505

TITLE: Probing secretion and translocation of a

.beta.-autotransporter using a reporter

single-chain Fv as a cognate passenger domain

AUTHOR(S): Veiga, Esteban; De Lorenzo, Victor; Fernandez,

Luis A.

CORPORATE SOURCE: Departamento de Biotecnologia Microbiana, Centro

Nacional de Biotecnologia, Madrid, 28049, Spain

SOURCE: Mol. Microbiol. (1999), 33(6), 1232-1243

CODEN: MOMIEE; ISSN: 0950-382X

PUBLISHER: Blackwell Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The mechanism of protein secretion mediated by the .beta.-domain of

the Neisseria gonorrhoeae IgA protease, a

paradigm of a family of secreted polypeptides of Gram-neg. bacteria called autotransporters, has been examd. using a single-chain antibody (scFv) as a reporter passenger domain to monitor the translocation process. Fusion of a scFv to the .beta.-module of the IgA protease allowed us to investigate the passage of the chimeric protein through the periplasm, its insertion into the outer membrane and the movement of the N-terminal moiety towards the cell surface. As the binding activity of the scFv to its target antigen is entirely dependent on the formation of disulfide bonds, the relationship between secretion, folding and formation of S-S bridges could be analyzed in detail. In contrast to the current notion that only an unfolded N-passenger domain can be translocated through the .beta.-domain, our results show that the scFv is able to pass through the outer membrane, albeit at a threefold reduced level, in an active conformation with its disulfide bonds preformed in the periplasm through the action of the DsbA product. These data call for a re-evaluation of the prevailing model for secretion of the N-domain of autotransporters.

L5 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1999:210223 CAPLUS

DOCUMENT NUMBER: 131:2573

TITLE: The comP locus of Neisseria gonorrhoeae encodes

a type IV prepilin that is dispensable for pilus

biogenesis but essential for natural

transformation

AUTHOR(S): Wolfgang, Matthew; Van Putten, Jos P. M.; Hayes,

Stanley F.; Koomey, Michael

CORPORATE SOURCE: Department of Microbiology and Immunology,

University of Michigan Medical School, Ann

Arbor, MI, 48109-0620, USA

SOURCE: Mol. Microbiol. (1999), 31(5), 1345-1357

CODEN: MOMIEE; ISSN: 0950-382X

PUBLISHER: Blackwell Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

The expression of type IV pili (Tfp) by Neisseria gonorrhoeae has been shown to be essential for natural genetic transformation at the level of sequence-specific uptake of DNA. All previously characterized mutants defective in this step of transformation either lack Tfp or are altered in the expression of Tfp-assocd. properties, such as twitching motility, autoagglutination and the ability to bind to human epithelial cells. To examine the basis for this relationship, we identified potential genes encoding polypeptides sharing structural similarities to PilE, the Tfp subunit, within the N. gonorrhoeae genome sequence database. We found that disruption of one such gene, designated comP (for competence-assocd. prepilin), leads to a severe defect in the capacity to take up DNA in a sequence-specific manner, but does not alter Tfp biogenesis or expression of the Tfp-assocd. properties of autoagglutination, twitching motility and human epithelial cell adherence. Indirect evidence based on immunodetection suggests that ComP is expressed at very low levels relative to that of PilE. The process of DNA uptake in gonococci, therefore, is now known to require the expression of at least three distinct components: Tfp, the recently identified PilT protein and ComP.

L5 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER:

1999:113576 CAPLUS

DOCUMENT NUMBER:

130:187171

TITLE:

•

Cyclized polypeptide prodrugs

INVENTOR(S):

Powell, Michael J.

PATENT ASSIGNEE(S):

Boehringer Mannheim Corporation, USA

SOURCE:

PCT Int. Appl., 44 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

W: CA, JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

US 1997-54285 19970730 PRIORITY APPLN. INFO.:

MARPAT 130:187171 OTHER SOURCE(S):

Cyclized prodrugs of this invention are covalently cross-linked so as to inhibit their ability to perform the usual biol. or metabolic function of therapeutic benefit. Either the polypeptide backbone of the enzyme or the cross link itself contains a cleavable site. an environment where the enzyme specific for the cleavable site is expressed, the cross-linked prodrug is released from its inhibited state and again becomes capable of exerting its therapeutic effect.

ANSWER 5 OF 16 CAPLUS COPYRIGHT 2000 ACS L5

1999:83282 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 130:277467

Neisseria gonorrhoeae mutants altered in TITLE:

> toxicity to human fallopian tubes and molecular characterization of the genetic locus involved

Arvidson, Cindy Grove; Kirkpatrick, Risa; AUTHOR (S):

Witkamp, Manon T.; Larson, Jason A.; Schipper,

Christel A.; Waldbeser, Lillian S.; O'Gaora, Peadar; Cooper, Morris; So, Magdalene

Department of Molecular Microbiology and CORPORATE SOURCE:

Immunology, Oregon Health Sciences University,

Portland, OR, 97201, USA

Infect. Immun. (1999), 67(2), 643-652 SOURCE:

CODEN: INFIBR; ISSN: 0019-9567

PUBLISHER: American Society for Microbiology

Journal DOCUMENT TYPE: LANGUAGE: English

In an effort to identify potential cytotoxins expressed by Neisseria AB qonorrhoeae, we have identified a locus that, when mutated in the qonococcus, results in a significant increase in toxicity of the strain to human fallopian tube organ cultures (HFTOC). This locus, gly1, contains two open reading frames (ORFs) which are likely cotranscribed. ORF1 encodes a polypeptide of 17.8 kDa with a signal sequence that is recognized and processed in Escherichia coli and N. qonorrhoeae. The 15.6-kDa processed polypeptide has been obsd. in membrane fractions and filtered spent media from cultures of E. coli expressing gly1 and in outer membrane prepns. of wildtype N. gonorrhoeae. The glyl locus is not essential for bacterial survival, and it does not play a detectable role in epithelial cell adhesion, invasion, or intracellular survival. However, a gly1 null mutant causes much more damage to fallopian tube tissues than its isogenic wild-type parent. A strain complemented in trans for the gly1 mutation showed a level of toxicity to HFTOC similar to the level elicited by the wild-type parent. Taken together, these results indicate an involvement of the glyl locus in the toxicity of N. gonorrhoeae to human fallopian tubes.

ACCESSION NUMBER:

1998:397229 CAPLUS

DOCUMENT NUMBER:

129:146676

TITLE:

Expression of iron binding proteins and hemin

binding activity in the dental pathogen

Actinobacillus actinomycetemcomitans

AUTHOR (S):

Graber, Katherine R.; Smoot, Laura M.; Actis,

Luis A.

CORPORATE SOURCE:

Department of Microbiology, Miami University,

Oxford, OH, 45056, USA

SOURCE:

FEMS Microbiol. Lett. (1998), 163(2), 135-142

CODEN: FMLED7; ISSN: 0378-1097

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal

LANGUAGE:

AB

MAGE: English Actinobacillus actinomycetemcomitans was found to express a

polypeptide immunol. related to the Neisseria gonorrhoeae FbpA iron binding protein. In addn., the expression of hitB and hitC homologs was detected by Northern blot This periodontal pathogen also expresses a polypeptide homologous to the 31-kDa Haemophilus influenzae protein, which shows amino acid sequence homol. with the FimA and YfeA proteins from Streptococcus parasanguis and Yersinia pestis, resp. Both A. actinomycetemcomitans protein homologs were located within the periplasmic space, and their synthesis was regulated by the iron and hemin concn. of the culture medium. Southern and Western blot anal. together with mol. cloning revealed the presence of a Fur-like repressor, which may control the iron regulation of gene expression in this bacterium. Cultivation in the presence of hemin or Congo red revealed the ability of this organism to bind hemin. This binding activity was further confirmed by isolating Escherichia coli DH5.alpha. clones that produced red and brown colonies on agar plates contg. Congo red and hemin, resp., after transformation with an A. actinomycetemcomitans gene library.

L5 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER:

1997:359156 CAPLUS

DOCUMENT NUMBER:

127:78317

TITLE:

Porin polypeptide contributes to surface charge

of gonococci

AUTHOR(S):

Swanson, John; Dorward, David; Lubke, Lori; Kao,

David

CORPORATE SOURCE:

Lab. of Microbial Struct. and Function, Natl. Inst. of Health, Hamilton, MT, 59840, USA

SOURCE:

J. Bacteriol. (1997), 179(11), 3541-3548

CODEN: JOBAAY; ISSN: 0021-9193

PUBLISHER:

American Society for Microbiology

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Each strain of Neisseria gonorrhoeae elaborates

Searcher

Shears 308-4994

a single porin polypeptide, with the porins expressed by different strains comprising two general classes, Por1A and Por1B. In the outer membrane, each porin mol. folds into 16 membrane-spanning .beta.-strands joined by top- and bottom-loop domains. PorlA and PorlB have similar membrane-spanning regions, but the eight surface-exposed top loops (I to VIII) differ in length and sequence. To det. whether porins, and esp. their top loop domains, contribute to bacterial cell surface charge, strain MS11 gonococci that were identical except for expressing a recombinant Por1A, Por1B, or mosaic Por1A-1B polypeptide were compared by whole-cell electrophoresis. These porin variants displayed different electrophoretic mobilities that correlated with the net nos. of charged amino acids within surface-exposed loops of their resp. porin polypeptides. The susceptibilities of porin variants to polyanionic sulfated polymers correlated roughly with gonococcal surface charge; those porin variants with diminished surface neg. showed increased sensitivity to the polyanionic sulfated compds. These observations indicate that porin polypeptides in situ contribute to the surface charge of gonococci, and they suggest that the bacterium's interactions with large sulfated compds. are thereby affected.

L5 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER:

1993:100355 CAPLUS

DOCUMENT NUMBER:

118:100355

TITLE:

Recombinant hybrid porin epitopes as vaccines

against Neisseria gonorrhoeae

INVENTOR(S):

Goldstein, Neil; Tackney, Charles

PATENT ASSIGNEE(S):

Imclone Systems Inc., USA

SOURCE:

PCT Int. Appl., 67 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIN	D DATE		APPLICATION NO.	DATE
WO 9216643	A1	19921001		WO 1992-US2090	19920313
W: AU,	CA, FI,	HU, JP, KR,	NO, I	RO, RŬ	
RW: AT,	BE, CH,	DE, DK, ES,	FR, (	GB, GR, IT, LU, MC	, NL, SE
CA 2105382	AA	19920915		CA 1992-2105382	19920313
CA 2105382	С	19990119			
AU 9217492	A1	19921021		AU 1992-17492	19920313
EP 575553	A1	19931229		EP 1992-910113	19920313
EP 575553	B1	19981216			
R: AT,	BE, CH,	DE, DK, ES,	FR, (	GB, GR, IT, LI, LU	, MC, NL, SE
JP 06507545	T2	19940901		JP 1992-509343	19920313
AT 174625	E	19990115		AT 1992-910113	19920313
		Searcher	:	Shears 308-49	94

ES 2127217 T3 19990416 ES 1992-910113 19920313 US 5547670 A 19960820 US 1993-124369 19930920 PRIORITY APPLN. INFO.: US 1991-669528 19910314 WO 1992-US2090 19920313

AB A chimeric (non) fusion polypeptide that is nontoxic to Escherichia coli comprises .gtoreq.1 antigenic porins selected from porin I.A (P.IA) and porin I.B (PI.B) of N. gonorrhoeae is provided. The chimeric polypeptide can be used as a vaccine against the serovar groups of N. gonorrhoeae. An E. coli expression plasmid pGC26 encoding chimeric GC26 consisting of 2 antigenic fragments selected from porins A and B, resp., was prepd. The GC26 was used to prep. anti-P.IA and -P.IB antibody.

L5 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1992:403172 CAPLUS

DOCUMENT NUMBER: 117:3172

TITLE: Endoglucanase A from Cellulomonas fimi in which

the hinge sequence of human IgA1 is substituted for the linker connecting its two domains is hydrolyzed by IgA proteases from Neisseria

gonorrhoeae

AUTHOR(S): Miller, Patricia B.; Shen, Hua; Gilkes, Neil R.;

Kilburn, Douglas G.; Miller, Robert C., Jr.;

Plaut, Andrew G.; Warren, R. Antony J.

CORPORATE SOURCE: Dep. Microbiol., Univ. British Columbia,

Vancouver, BC, V6T 1Z3, Can.

SOURCE: FEMS Microbiol. Lett. (1992), 92(2), 199-203

CODEN: FMLED7; ISSN: 0378-1097

DOCUMENT TYPE: Journal LANGUAGE: English

The hinge in IgA1 and the linker in endoglucanase A (CenA) are quite similar. The IgA1 hinge is 18 amino acids long and contains only proline, threonine and serine. The linker in CenA is 27 amino acids long and contains only proline, threonine and a single serine. IgA proteases from N. gonorrhoeae cleave Pro-Ser and Pro-Thr bonds within the IgA1 hinge sequence, but they do not attack CenA. When the linker sequence of CenA is replaced with the hinge sequence of IgA1, the hybrid polypeptide is susceptible to the N. gonorrhoeae proteases. It is cleaved within the hinge sequence at the same sites as IgA1.

L5 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1989:551626 CAPLUS

DOCUMENT NUMBER: 111:151626

TITLE: Immunological characterization of a human

homolog of the 65-kilodalton mycobacterial

antigen

AUTHOR(S): Dudani, Anil K.; Gupta, Radhey S.

CORPORATE SOURCE: Dep. Biochem., McMaster Univ., Hamilton, ON, L8N

3Z5, Can.

SOURCE: Infect. Immun. (1989), 57(9), 2786-93

CODEN: INFIBR; ISSN: 0019-9567

DOCUMENT TYPE: Journal LANGUAGE: English

A human mitochondrial protein, designated P1 (63 kilodaltons [kDa]), shows extensive sequence homol. (47% identical residues and an addnl. .apprxeq.20% conserved changes) to the 65-kDa mycobacterial antigen. To understand the relationship of these proteins, the cross-reactivity of several monoclonal antibodies directed against the 65-kDa Mycobacterium leprae antigen towards human, Chinese hamster, chicken, and bacterial cells has been examd. A no. of antibodies cross-react with a 63-kDa antigen in vertebrate cell exts. and stained mitochondria in immunofluorescence studies. of these antibodies also reacted with a P1-.beta.-galactosidase fusion protein in recombinant Escherichia coli cells, expressing part of the human P1 protein. These results provide strong evidence that P1 is the mammalian homolog of the 65-kDa antigen. The human P1 protein also shows similarity to a no. of other bacterial and viral proteins including the pol polyprotein of human immunodeficiency viruses and the penicillin-binding protein of Neisseria gonorrhoeae. The obsd. similarity between human P1 protein and the major antigenic proteins of pathogenic organisms (e.g., 60- to 65-kDa mycobacterial antigen) suggests its possible involvement in autoimmune diseases (e.g., rheumatoid arthritis) by antigenic mimicry.

L5 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1989:179505 CAPLUS

DOCUMENT NUMBER: 110:179505

TITLE: Gonococcal and meningococcal polypeptides,

vaccines and diagnostics

INVENTOR(S): Meyer, Thomas F.; Stern, Anne

Patent

PATENT ASSIGNEE(S): Max-Planck-Gesellschaft zur Foerderung der

Wissenschaften e.V., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE APPLICATION NO		APPLICATION NO.	DATE
EP 273116	<b>A2</b>	19880706	EP 1987-114513	19871005
ED 273116	Δ3	19900502		

R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
PRIORITY APPLN. INFO.: EP 1986-113993 19861009
AB Polypeptides which include an amino acid sequence constituted of

5-80 amino acid residues and which is capable of immunol. mimicking a conserved antigenic determinant site of a gonococcal opacity protein (Protein II) (I) and/or meningococcal class 5 protein (II) are described. They may be used as diagnostic agents or vaccines for meningitis or gonorrhea.

ANSWER 12 OF 16 CAPLUS COPYRIGHT 2000 ACS L5

ACCESSION NUMBER:

1987:208679 CAPLUS

DOCUMENT NUMBER:

106:208679

TITLE:

Gene conversion variations generate structurally

distinct pilin polypeptides in

Neisseria gonorrhoeae

AUTHOR (S):

Swanson, John; Robbins, Kenneth; Barrera, Osmar;

Koomey, J. Michael

CORPORATE SOURCE:

Lab. Microb. Struct. Funct., Natl. Inst. Allergy

Infect. Dis., Hamilton, MT, 59840, USA J. Exp. Med. (1987), 165(4), 1016-25

CODEN: JEMEAV; ISSN: 0022-1007

DOCUMENT TYPE:

Journal

LANGUAGE:

SOURCE:

English

Pilus+ to pilus- phenotype change occurs in N. gonorrhoeae through AB gene conversion of the complete, expressed pilin gene by nucleotides homologous to the pilS1 copy 5 partial pilin gene; assembly missense pilin is synthesized but pili are not. Reversion to pilus+ occurs by a subsequent recombinational event that replaces the complete pilin gene's pilS1 copy 5-like sequence with nucleotides from a different partial gene to effect expression of an orthodox (i.e., pilus producing) pilin. Sibling pilus+ revertants of common parentage can carry different sequences in their expressed pilin genes because they have undergone nonidentical gene conversion events such as (a) recombinations with sequences from different partial genes, or (b) recombinations with different length nucleotide stretches of the same partial gene; either can yield structurally and antigenically variant pilin polypeptides.

ANSWER 13 OF 16 CAPLUS COPYRIGHT 2000 ACS **T.5** 

ACCESSION NUMBER:

1986:180783 CAPLUS

DOCUMENT NUMBER:

104:180783

TITLE:

Polypeptides encoded by cryptic

plasmids from Neisseria

gonorrhoeae

AUTHOR (S):

Aalen, Reidunn B.; Gundersen, Wenche Blix

CORPORATE SOURCE:

Dep. Biol., Univ. Oslo, Blindern, 0315, Norway

Plasmid (1985), 14(3), 209-16 SOURCE:

CODEN: PLSMDX; ISSN: 0147-619X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Almost all clin. isolates of N. gonorrhoeae harbor a small,

phenotypically cryptic plasmid of .apprx.4.1 kilobases.

Searcher Shears 308-4994 :

polypeptides encoded by 2 variants of such plasmids, 1 (pSB01C) having a deletion of .apprx.50 base-pairs (bp) in comparison with the other (p31788C), were identified, and the position of the genes for 2 of the proteins was detd. The cryptic plasmids were cloned into the HindIII site of the vectors pBR322 and pACYC184. resulting recombinant plasmids were transformed into the Escherichia coli minicell producing strain DS410 (minB) and the plasmid-encoded proteins analyzed by SDS polyacrylamide gel electrophoresis. pSB01C derivs. express 2 distinct proteins of 22 and 16 kilodaltons (kDa) and p31788C 2 other proteins of 24 and 18.5 kDa. Addnl., both plasmids express common proteins of 32.5, 9, and 7.5 kDa. The genes coding for the 24- and the 7.5-kDa proteins were mapped by restriction enzyme anal. of Tn5 insertions suppressing their expression. The addnl. 50 bp in p31788C are localized to the coding region of the 24-kDa protein, and the 22-kDa protein of pSB01C is possibly a shortened form of the former due to the lack of 50 bp.

L5 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER:

1986:136069 CAPLUS

DOCUMENT NUMBER:

104:136069

TITLE:

Peptide vaccine or diagnostic, and a polypeptide

useful therefor

INVENTOR(S):

So, Magdalene Y. H.; Deal, Carolyn D.; Hagblom,

Per O.

PATENT ASSIGNEE(S):

Scripps Clinic and Research Foundation, USA

SOURCE:

PCT Int. Appl., 45 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	KIND DATE	APPLICATION NO.	DATE
WO 8504654	A1 19851024	WO 1985-US565	19850404
W: AU, DK,	FI, JP, NO, US		
RW: AT, BE,	CH, DE, FR, GB,	IT, LU, NL, SE	
AU 8541590	A1 19851101	AU 1985-41590	19850404
AU 582358	B2 19890323		
EP 177583	A1 19860416	EP 1985-901876	19850404
R: AT, BE,	CH, DE, FR, GB,	IT, LI, LU, NL, SE	
JP 61501777	T2 19860821	JP 1985-501646	19850404
IL 74829	A1 19890228	IL 1985-74829	19850405
ZA 8502629	A 19851127	ZA 1985-2629	19850409
DK 8505652	A 19851205	DK 1985-5652	19851205
FI 8504839	A 19851205	FI 1985-4839	19851205
FI 81452	B 19900629		
FI 81452	C 19901010		
NO 8504903	A 19860204	NO 1985-4903	19851205
	Searcher	: Shears 308-49	94

PRIORITY APPLN. INFO.:

US 1984-597434 19840406 WO 1985-US565 19850404

AB A series of short synthetic polypeptides whose amino acid residue sequences correspond to small segments of the gonococcal pilin protein are used as immunogens in a vaccine prepn. against gonorrhea. Thus, gonococcal pilin protein polypeptides were synthesized by the Merrifield method. The polypeptides were conjugated to a tetanus toxoid carrier and the conjugates were used to detect anti-polypeptide antibody in rabbit antisera. Rabbit antisera that exhibited a 4-fold higher titer than the neg. control were considered pos. for the presence of anti-polypeptide antibodies. These antibodies were able to react pos. with both isolated gonococcal pilin and with whole Neisseria cells. Evidently, these polypeptides induce broad-spectrum antibodies and may be useful as components in broad-spectrum N. gonorrhoeae vaccines.

L5 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER:

1979:538706 CAPLUS

DOCUMENT NUMBER:

91:138706

TITLE:

Antigenic polypeptide complex from the

Melvin strain of Neisseria

gonorrhoeae: isolation and properties

AUTHOR (S):

Karkhanis, Yashwant D.; Anderson, Richard L.;
Zeltner, Johanna Y.; Carlo, Dennis J.; Stoudt,

Thomas H.

CORPORATE SOURCE:

Merck Inst. Ther. Res., Rahway, NJ, 07065, USA

SOURCE:

Infect. Immun. (1979), 25(2), 635-44

CODEN: INFIBR; ISSN: 0019-9567

DOCUMENT TYPE:

Journal

LANGUAGE:

English

An antigenic complex was isolated in a highly purified form from the Melvin strain of N. gonorrhoeae. The complex had a mol. wt. of 9.3 .times. 106 and on Na dodecyl sulfate-polyacrylamide gel electrophoresis was found to consist of several subunits; the most predominant had the following mol. wts.: 110,000, 94,000, 68,000, a smear (contg. 52,000, 48,000, and 44,000), 42,000, 36,000, 29,000, 28,000, 26,000, and 12,000 comprising 89% of the total protein. With the exception of the subunit of mol. wt. 110,000, no change in the content or the mobility of other subunits was obsd. when .beta.-mercaptoethanol was omitted from the denaturation soln. of Na dodecyl sulfate electrophoresis. Amino acid anal. of the complex showed a predominance of hydrophobic amino acids. Thus, noncovalent interactions between the subunits were implicated. When the cells were labeled with fluorescamine, a fluorescent complex was obtained with identical properties. Among several buffers used for the isolation of the complex, 0.2 M tris(hydroxymethyl)aminomethane buffer (pH 7.5) gave max. yield with low amts. of lipopolysaccharide and phospholipid; the choice of the buffer for column chromatog. did

not seem to make any difference. The high protein content and low amts. of lipopolysaccharide and phospholipid are characteristic properties of the complex.

ANSWER 16 OF 16 CAPLUS COPYRIGHT 2000 ACS L5

ACCESSION NUMBER:

1979:521960 CAPLUS

DOCUMENT NUMBER:

91:121960

TITLE:

Antigenic subunit of the polypeptide antigenic complex of the Melvin strain of

Neisseria gonorrhoeae

AUTHOR(S):

Karkhanis, Yashwant D.; Anderson, Richard L.; Zeltner, Johanna Y.; Maigetter, Robert Z.;

Carlo, Dennis J.; Stoudt, Thomas H.

CORPORATE SOURCE:

Merck Inst. Ther. Res., Rahway, NJ, 07065, USA Biochem. Biophys. Res. Commun. (1979), 89(2),

750-8

CODEN: BBRCA9; ISSN: 0006-291X

DOCUMENT TYPE:

Journal English

LANGUAGE:

AB

SOURCE:

An antigenic subunit of mol. wt. 66,000 daltons has been isolated from the antigenic complex of the Melvin strain of N. gonorrhoeae. Incubation of the complex in 8 M urea at room temp. for 4 h resulted in the dissocn. of the subunit from the complex. It was sepd. from the complex by chromatog. of the incubation mixt. on a Sepharose 6B column in 50 mM ammonium bicarbonate pH 8.5 without 8 M urea and further purified by affinity chromatog. A newly isolated antigenic

protein devoid of lipopolysaccharide present in the bacteria was reported.

(FILE 'MEDLINE, BIOSIS, EMBASE, LIFESCI, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS' ENTERED AT 15:09:14 ON 18 APR 2000)

L6

71 S L5

L7

24 DUP REM L6 (47 DUPLICATES REMOVED)

DERWENT INFORMATION LTD ANSWER 1 OF 24 WPIDS COPYRIGHT 2000 L7

ACCESSION NUMBER:

2000-062150 [05] WPIDS

DOC. NO. NON-CPI:

N2000-048684

DOC. NO. CPI:

C2000-017184

TITLE:

Novel Neisserial polypeptides predicted to be useful antigens for vaccines and diagnostics.

DERWENT CLASS:

B04 D16 S03

INVENTOR(S):

FRASER, C; GALEOTTI, C; GRANDI, G; HICKEY, E; MASIGNANI, V; MORA, M; PETERSEN, J; PIZZA, M; RAPPUOLI, R; RATTI, G; SCALATO, E; SCARSELLI, M;

TETTELIN, H; VENTER, J C

PATENT ASSIGNEE(S):

(CHIR) CHIRON CORP; (GENO-N) INST GENOMIC RES

COUNTRY COUNT:

PATENT INFORMATION:

308-4994 Searcher : Shears

PATENT NO KIND DATE WEEK LA PG

WO 9957280 A2 19991111 (200005)\* EN

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW

AU 9939677 A 19991123 (200016)

# APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9957280	A2	WO 1999-US9346	19990430
AU 9939677	A	AU 1999-39677	19990430

#### FILING DETAILS:

AΒ

AU 3333077 A Based On NO 3337200

PRIORITY APPLN. INFO: US 1999-121528 19990225; US 1998-83758 19980501; US 1998-94869 19980731; US 1998-98994 19980902; US 1998-99062 19980902; US 1998-103749 19981009; US 1998-103794 19981009; US 1998-103796 19981009

AN 2000-062150 [05] WPIDS

WO 9957280 A UPAB: 20000128

NOVELTY - Novel Neisseria meningitis and  ${\bf N}.$ 

gonorrhoeae polypeptides and polynucleotides are disclosed.

DETAILED DESCRIPTION - A protein (I), one of the 1510 amino acid sequences given in the specification, is new.

INDEPENDENT CLAIMS are also included for the following:

- (1) a protein (Ia) having 50% or greater homology or (I);
- (2) a protein (Ib) comprising a fragment of 7 or more consecutive amino acids from (I);
  - (3) an antibody which binds to (I), (Ia) or (Ib);
- (4) a nucleic acid (II), preferably comprising one of the 1510 polynucleotide sequences given in the specification, which encodes(I), (Ia) or (Ib);
- (5) a nucleic acid (IIa) comprising a fragment of 10 or more consecutive nucleotides form (II);
  - (6) a nucleic acid (IIb) which is complementary to (II);

(3);

- (8) the use of the composition of (7) in the manufacture of a medicament for the treatment or prevention of infection due to Neisserial bacteria;
  - (9) an immunogenic composition comprising (I), (Ia) or (Ib). ACTIVITY - Antigenic.

MECHANISM OF ACTION - None given.

USE - The proteins, the polynucleotides, antibodies and compositions of the invention are used as vaccines, as diagnostic reagents, and as immunogenic compositions (claimed). The proteins can be used in the manufacture of medicaments for treating or preventing infection due to Neisserial bacteria (e.g. meningitis and septicaemia), to detect the presence of Neisseria bacteria, or to raise antibodies. The proteins may also be used to screen for agonists or antagonists, which may themselves have use as antibacterial agents. The polynucleotides of the invention may also be used in gene therapy protocols.

ADVANTAGE - Neisseria meningitis causes both endemic and epidemic disease. The meningococcal vaccine currently in use induces a poor immune response and short duration of response, and cannot be used in infants. This is because it is a polysaccharide vaccine, which is T-cell dependent, and so cannot be boosted by repeated vaccinations. A need exists for the identification of secreted or surface-exposed proteins that are presumed targets of the immune system and which are not antigenically variable. These proteins would be useful for the development of vaccines against the pathogen. The present invention provides such proteins. Dwg.0/23

MEDLINE

ANSWER 2 OF 24 MEDLINE L7

DUPLICATE 1

ACCESSION NUMBER: DOCUMENT NUMBER:

1999217013

99217013

TITLE:

The comP locus of Neisseria gonorrhoeae encodes a

type IV prepilin that is dispensable for pilus biogenesis but essential for natural transformation.

AUTHOR:

Wolfgang M; van Putten J P; Hayes S F; Koomey M

CORPORATE SOURCE:

Department of Microbiology and Immunology, University

of Michigan Medical School, Ann Arbor 48109-0620,

USA.

CONTRACT NUMBER:

A127837 (NCRR)

M01 RR 00042

SOURCE:

MOLECULAR MICROBIOLOGY, (1999 Mar) 31 (5) 1345-57.

Journal code: MOM. ISSN: 0950-382X.

PUB. COUNTRY:

ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199909

The expression of type IV pili (Tfp) by Neisseria gonorrhoeae has

Searcher

Shears 308-4994

been shown to be essential for natural genetic transformation at the level of sequence-specific uptake of DNA. All previously characterized mutants defective in this step of transformation either lack Tfp or are altered in the expression of Tfp-associated properties, such as twitching motility, autoagglutination and the ability to bind to human epithelial cells. To examine the basis for this relationship, we identified potential genes encoding polypeptides sharing structural similarities to PilE, the Tfp subunit, within the N. gonorrhoeae genome sequence database. We found that disruption of one such gene, designated comP (for competence-associated prepilin), leads to a severe defect in the capacity to take up DNA in a sequence-specific manner, but does not alter Tfp biogenesis or expression of the Tfp-associated properties of auto-agglutination, twitching motility and human epithelial cell adherence. Indirect evidence based on immunodetection suggests that ComP is expressed at very low levels relative to that of PilE. The process of DNA uptake in gonococci, therefore, is now known to require the expression of at least three distinct components: Tfp, the recently identified PilT protein and ComP.

DUPLICATE 2 L7 ANSWER 3 OF 24 MEDLINE

1999440173 MEDLINE ACCESSION NUMBER:

DOCUMENT NUMBER: 99440173

Probing secretion and translocation of a TITLE:

beta-autotransporter using a reporter single-chain Fv

as a cognate passenger domain.

Veiga E; de Lorenzo V; Fernandez L A **AUTHOR:** 

Departamento de Biotecnologia Microbiana, Centro CORPORATE SOURCE:

Nacional de Biotecnologia, Campus de Cantoblanco,

28049-Madrid, Spain.

SOURCE: MOLECULAR MICROBIOLOGY, (1999 Sep) 33 (6) 1232-43.

Journal code: MOM. ISSN: 0950-382X.

ENGLAND: United Kingdom PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

200001 ENTRY MONTH: ENTRY WEEK: 20000104

The mechanism of protein secretion mediated by the beta-domain of AB

the Neisseria gonorrhoeae IgA protease, a

paradigm of a family of secreted polypeptides of

Gram-negative bacteria called autotransporters, has been examined using a single-chain antibody (scFv) as a reporter passenger domain to monitor the translocation process. Fusion of a scFv to the beta-module of the IgA protease allowed us to investigate the passage of the chimeric protein through the periplasm, its insertion into the outer membrane and the movement of the N-terminal moiety towards the cell surface. As the binding activity of the scFv to its

> Shears 308-4994 Searcher

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target antigen is entirely dependent on the formation of disulphide bonds, the relationship between secretion, folding and formation of S-S bridges could be analysed in detail. In contrast to the current notion that only an unfolded N-passenger domain can be translocated through the beta-domain, our results show that the scFv is able to pass through the outer membrane, albeit at a threefold reduced level, in an active conformation with its disulphide bonds preformed in the periplasm through the action of the DsbA product. These data call for a re-evaluation of the prevailing model for secretion of the N-domain of autotransporters.

L7 ANSWER 4 OF 24 MEDLINE DUPLICATE 3

ACCESSION NUMBER: 1999115537 MEDLINE

DOCUMENT NUMBER: 99115537

TITLE: Neisseria gonorrhoeae mutants altered in toxicity to

human fallopian tubes and molecular characterization

of the genetic locus involved.

AUTHOR: Arvidson C G; Kirkpatrick R; Witkamp M T; Larson J A;

Schipper C A; Waldbeser L S; O'Gaora P; Cooper M; So

М

CORPORATE SOURCE: Department of Molecular Microbiology and Immunology,

Oregon Health Sciences University, Portland, Oregon

97201, USA.. arvidson@ohsu.edu

CONTRACT NUMBER: RO AI34560 (NIAID)

SOURCE: INFECTION AND IMMUNITY, (1999 Feb) 67 (2) 643-52.

Journal code: GO7. ISSN: 0019-9567.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

N. gonorrhoeae. The 15.6-kDa processed

OTHER SOURCE: GENBANK-AF003941

ENTRY MONTH: 199905 ENTRY WEEK: 19990502

AB In an effort to identify potential cytotoxins expressed by Neisseria gonorrhoeae, we have identified a locus that, when mutated in the gonococcus, results in a significant increase in toxicity of the strain to human fallopian tube organ cultures (HFTOC). This locus, gly1, contains two open reading frames (ORFs) which are likely cotranscribed. ORF1 encodes a polypeptide of 17.8 kDa with a signal sequence that is recognized and processed in Escherichia coli and

polypeptide has been observed in membrane fractions and filtered spent media from cultures of E. coli expressing gly1 and in outer membrane preparations of wild-type N. gonorrhoeae. The gly1 locus is not essential for bacterial survival, and it does not play a detectable role in epithelial cell adhesion, invasion, or intracellular survival. However, a gly1 null mutant causes much more damage to fallopian tube tissues than its isogenic wild-type parent. A strain complemented in trans for the gly1 mutation showed a level

of toxicity to HFTOC similar to the level elicited by the wild-type parent. Taken together, these results indicate an involvement of the glyl locus in the toxicity of N. gonorrhoeae to human fallopian tubes.

L7 ANSWER 5 OF 24 MEDLINE

~ DUPLICATE 4

ACCESSION NUMBER:

1998336886

MEDLINE

DOCUMENT NUMBER:

98336886

TITLE:

Expression of iron binding proteins and hemin binding

activity in the dental pathogen Actinobacillus

actinomycetemcomitans.

AUTHOR:

Graber K R; Smoot L M; Actis L A

CORPORATE SOURCE:

Department of Microbiology, Miami University, Oxford,

OH 45056, USA.

CONTRACT NUMBER:

AI37781 (NIAID)

SOURCE:

FEMS MICROBIOLOGY LETTERS, (1998 Jun 15) 163 (2)

135-42.

Journal code: FML. ISSN: 0378-1097.

PUB. COUNTRY:

Netherlands

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199810

Actinobacillus actinomycetemcomitans was found to express a AB polypeptide immunologically related to the Neisseria gonorrhoeae FbpA iron binding protein. In addition, the expression of hitB and hitC homologs was detected by Northern blot analysis. This periodontal pathogen also expresses a polypeptide homologous to the 31-kDa Haemophilus influenzae protein, which shows amino acid sequence homology with the FimA and YfeA proteins from Streptococcus parasanquis and Yersinia pestis, respectively. Both A. actinomycetemcomitans protein homologs were located within the periplasmic space, and their synthesis was regulated by the iron and hemin concentration of the culture medium. Southern and Western blot analysis together with molecular cloning revealed the presence of a Fur-like repressor, which may control the iron regulation of gene expression in this bacterium. Cultivation in the presence of hemin or Congo red revealed the ability of this organism to bind hemin. This binding activity was further confirmed by isolating Escherichia coli DH5 alpha clones that produced red and brown colonies on agar plates containing Congo red and hemin, respectively, after transformation with an A. actinomycetemcomitans gene library.

L7 ANSWER 6 OF 24 MEDLINE

DUPLICATE 5

ACCESSION NUMBER:

97315224

MEDLINE

DOCUMENT NUMBER:

97315224

TITLE:

Porin polypeptide contributes to surface charge of

gonococci.

AUTHOR:

Swanson J; Dorward D; Lubke L; Kao D

Searcher

Shears 308-4994

CORPORATE SOURCE:

Laboratory of Microbial Structure and Function, Rocky

Mountain Laboratories, National Institute of Allergy

and Infectious Diseases, National Institutes of

Health, Hamilton, Montana 59840, USA..

John Swanson@nih.gov

SOURCE:

JOURNAL OF BACTERIOLOGY, (1997 Jun) 179 (11) 3541-8.

Journal code: HH3. ISSN: 0021-9193.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199709 19970902

ENTRY WEEK:

Each strain of Neisseria gonorrhoeae elaborates

AB a single porin polypeptide, with the porins expressed by

different strains comprising two general classes, PorlA and PorlB.

In the outer membrane, each porin molecule folds into 16 membrane-spanning beta-strands joined by top- and bottom-loop domains. Por1A and Por1B have similar membrane-spanning regions, but the eight surface-exposed top loops (I to VIII) differ in length and sequence. To determine whether porins, and especially their top loop

domains, contribute to bacterial cell surface charge, strain MS11 qonococci that were identical except for expressing a recombinant Por1A, Por1B, or mosaic Por1A-1B polypeptide were compared by whole-cell electrophoresis. These porin variants displayed different electrophoretic mobilities that correlated with the net numbers of charged amino acids within surface-exposed loops of their respective porin polypeptides. The susceptibilities of porin variants to

polyanionic sulfated polymers correlated roughly with gonococcal surface charge; those porin variants with diminished surface negativity showed increased sensitivity to the polyanionic sulfated compounds. These observations indicate that porin polypeptides in situ contribute to the surface charge of gonococci, and they suggest

that the bacterium's interactions with large sulfated compounds are

MEDLINE

thereby affected.

L7 ANSWER 7 OF 24 MEDLINE DUPLICATE 6

ACCESSION NUMBER:

97261830

DOCUMENT NUMBER:

97261830

TITLE:

The complete sequence, expression in Escherichia coli, purification and some properties of carbonic

anhydrase from Neisseria gonorrhoeae.

AUTHOR:

Chirica L C; Elleby B; Jonsson B H; Lindskog S

CORPORATE SOURCE:

Department of Biochemistry, Umea University, Sweden.

SOURCE:

EUROPEAN JOURNAL OF BIOCHEMISTRY, (1997 Mar 15) 244

(3) 755-60.

Journal code: EMZ. ISSN: 0014-2956.

PUB. COUNTRY:

GERMANY: Germany, Federal Republic of

Journal; Article; (JOURNAL ARTICLE)

Shears Searcher 308-4994

LANGUAGE:

English

FILE SEGMENT:

Priority Journals; Cancer Journals

OTHER SOURCE:

GENBANK-Y11152

ENTRY MONTH:

199707

ENTRY WEEK:

19970704

AB The complete nucleotide sequence of the carbonic anhydrase gene from Neisseria gonorrhoeae has been determined. The

gene encodes a 252-residue polypeptide with a molecular mass of 28085 Da. The gene has been cloned and overexpressed in Escherichia coli, and the enzyme has been purified. A 26-residue signal peptide is cleaved off by the E. coli processing machinery. Thus, the isolated enzyme contains 226 amino acid residues with a molecular mass of 25314 Da. Most of the enzyme seems to be produced as a soluble protein located in the periplasm of E. coli. The enzyme is homologous to carbonic anhydrases from the animal kingdom; it is an alpha-carbonic anhydrase. A comparison with the amino acid sequences of human carbonic anhydrases I and II suggests that the secondary structures are essentially intact in the bacterial enzyme but that several loops are much shorter than in the human forms. Most of the active-site residues are identical to those found in the high-activity human isozyme II. The bacterial enzyme has a high CO2 hydration activity with a k(cat) of 1.1 x 10(6) s(-1) and Km of 20 mM at pH 9 and 25 degrees C. The enzyme also catalyzes the hydrolysis of 4-nitrophenyl acetate. The pH/rate profile can be described as a titration curve with pKa of 6.7 and a maximal value of the catalytic second-order rate constant, k(enz), of 130 M(-1) x s(-1).

L7 ANSWER 8 OF 24 WPIDS COPYRIGHT 2000 DERWENT INFORMATION LTD

ACCESSION NUMBER:

1996-321651 [32] WPIDS

DOC. NO. CPI:

C1996-102388

TITLE:

Use of nucleic acids in gene therapy - for altering characteristics of at least some of reproductive

Characteristics of at reast

tract cells of mammal.

DERWENT CLASS:

B04 D16

INVENTOR(S):

CHARNOCK-JONES, D S; HEAP, R B; SHARKEY, A M;

SMITH, S K; HEAP, B R; SMITH, K S

PATENT ASSIGNEE(S):

(UYCA-N) UNIV CAMBRIDGE TECH SERVICES LTD

COUNTRY COUNT:

66

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 9620013 A1 19960704 (199632)\* EN 40

RW: AT BE CH DE DK ES FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

W: AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG US UZ VN

ΑU	9642707	Α	19960	719	(1996	547)							
ΕP	799058	A1	19971	800	(1997	745)	EN						
	R: AT BE	CH I	DE DK	ES I	FR GB	GR I	E IT	LI	LU	MC	NL	PT	SE
NO	9702935	Α	19970	822	(1997	745)							
HU	77338	T	19980	330	(1998	323)							
SK	9700801	<b>A3</b>	19980	408	(1998	324)							
CZ	9701917	<b>A3</b>	19980	617	(1998	30)							
BR	9510408	Α	19981	110	(1998	350)							
JP	10511548	W	19981	110	(1999	04)		4:	L				
KR	98700874	Α	19980	430	(1999	14)							
MX	9704765	A1	19980	201	(1999	54)							
AU	712278	В	19991	104	(2000	03)							

# APPLICATION DETAILS:

WO 9620013 A1 WO 1995-GB3008 1995: AU 9642707 A AU 1996-42707 1995:	1221
711 06/2707 7 7 711 1006_/2707 100E	
AU 9642707 A AU 1990-42707 1993.	1221
EP 799058 A1 EP 1995-941229 1995	
WO 1995-GB3008 19953	1221
NO 9702935 A WO 1995-GB3008 1995	L221
NO 1997-2935 1997	)623
HU 77338 T WO 1995-GB3008 1995:	L221
HU 1997-2205 1995	L <b>221</b>
SK 9700801 A3 WO 1995-GB3008 1995:	L221
SK 1997-801 19953	L <b>221</b>
CZ 9701917 A3 WO 1995-GB3008 1995:	L221
CZ 1997-1917 19953	L <b>221</b>
BR 9510408 A BR 1995-10408 1995	L <b>221</b>
WO 1995-GB3008 19953	L221
JP 10511548 W WO 1995-GB3008 1995	L <b>221</b>
JP 1996-520293 19953	<b>1221</b>
KR 98700874 A WO 1995-GB3008 19953	<b>221</b>
KR 1997-704336 1997	624
MX 9704765 A1 MX 1997-4765 19970	624
AU 712278 B AU 1996-42707 1995	L221

# FILING DETAILS:

PAT	TENT NO	KIND			PAT	TENT NO	
							-
ΑŲ	9642707	Α	Based	on	WO	9620013	
ΕP	799058	A1	Based	on	WO	9620013	
HU	77338	T	Based	on	WO	9620013	
CZ	9701917	<b>A</b> 3	Based	on	WO	9620013	
BR	9510408	Α	${\tt Based}$	on	WO	9620013	
JP	10511548	W	Based	on	WO	9620013	
KR	98700874	Α	Based	on	WO	9620013	
				Searcher	:	Shears	308-49

AU 712278 B Previous Publ. AU 9642707 WO 9620013 Based on

PRIORITY APPLN. INFO: GB 1995-20879 19951012; GB 1994-26380

19941224

WPIDS AN 1996-321651 [32]

AB 9620013 A UPAB: 19960819

> A method for altering 1 characteristic of at least some of the cells of the reproductive tract of a mammalian individual, by the introduction of a nucleic acid into the cells, is new.

Also claimed is the use of a compsn. for carrying out above mentioned method comprising nucleic acid in the prepn. of a substance.

USE - The method can be used to alter the fertility of the individual. It can also be used to express a polypeptide having a local immunological effect, such as a polypeptide from HIV, papilloma viruses, Chlamydia or N. gonorrhoea (all claimed). Dwq.0/4.

ANSWER 9 OF 24 LIFESCI COPYRIGHT 2000 CSA L7

ACCESSION NUMBER:

97:82919 LIFESCI

Support-bound nucleotide probe for Neisseria TITLE:

gonorrhoeae

BEHRINGWERKE AKTIENGESELLSCHAFT CORPORATE SOURCE:

(1996) . US Patent 5525717; US Cl. 536/24.32 435/6 SOURCE:

435/91.1 435/871 536/23.1 536/24.3.

Patent DOCUMENT TYPE:

FILE SEGMENT: Α

English LANGUAGE:

A nucleotide sequence characteristic of Neisseria gonorrhoeae is AB disclosed. The sequence can be the basis for hybridization type, nucleic acid-based, rapid, in vitro diagnostic assays. The unique nature of the sequence makes it possible to clearly discriminate N. gonorrhoeae from other Neisseria species thus eliminating or substantially reducing the number of false positive readings. A 350 base pair N. gonorrhoeae DNA restriction fragment was cloned after subtractive hybridization to Neisseria meningitidis DNA. In further cloning experiments the sequences adjacent to the original 350 base pair fragment were determined. A portion of this sequence was shown to detect 105 of 106 N. gonorrhoeae strains and no other Neisseria species. In addition to use as detection probes, all or portions of the nucleotide sequence can be used as a ligand for the sandwich capture of N. gonorrhoeae sequences and as primers for in vitro amplification of N. gonorrhoeae sequences. The polypeptides encoded by the presently disclosed sequence,

including antibodies thereto, are also disclosed as are their uses.

ACCESSION NUMBER:

1993-350818 [44] WPIDS

CROSS REFERENCE:

1996-286454 [29]; 2000-146910 [13]

DOC. NO. CPI:

C1993-155682

TITLE:

DNA specific for neisseria gonorrhoeae - used for rapid detection of N-gonorrhoeae infection using labelled probes, with reduced incidence of false

positive readings.

DERWENT CLASS:

B04 D16

INVENTOR(S):
PATENT ASSIGNEE(S):

BORN, T L; MIYADA, C G (SYNT) SYNTEX USA INC

COUNTRY COUNT:

(DIMI) DIM.

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 5256536	Α	19931026	(199344) *		18

# APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 5256536	A	US 1990-611528	19901109

PRIORITY APPLN. INFO: US 1990-611528 19901109

AN 1993-350818 [44] WPIDS

CR 1996-286454 [29]; 2000-146910 [13]

AB US 5256536 A UPAB: 20000313

A nucleotide sequence (I) specific for Neisseria gonorhoeae comprises at least 17 contiguous nucleotides.

Also claimed are: (1) a polynucleotide probe specific for N. gonorrhoeae which is capable of selectively hybridising to the DNA of SEQ ID NO:1 or its complement; (2) a conjugate comprising a label bound to a probe of (1); (3) a method for detecting the presence of N. gonorrhoeae infection which involves: (a) providing, in combination, (i) a medium suspected of contg. N. gonorrhoeae DNA and (ii) at least one probe as in (1), under conditions where complexes of the probe and single stranded N. gonorrhoeae DNA may form; and (b) detecting the complexes; and (4) a kit for carrying out the above assay.

USE/ADVANTAGE - The DNA can be used as the basis for a rapid in-vitro diagnostic assays for N. gonorrhoeae infection. The unique nature of the sequence makes it possible to clearly discriminate N. gonorrhoaea from other Neisseria species thus eliminating or reducing the number of false positive readings. The DNA may also be used as a ligand for the sandwich capture of N. gonorrhoeae and as primers for in vigro amplification of N.

gonorrhoeae sequences. Polypeptides encoded by the sequences may be used to prepare antibodies.

Dwg.0/4

ANSWER 11 OF 24 WPIDS COPYRIGHT 2000 DERWENT INFORMATION LTD

ACCESSION NUMBER: 1992-349224 [42] WPIDS

C1992-155082 DOC. NO. CPI:

TITLE: Recombinant chimeric porin epitope(s) of Neisseria

gonorrhoeae - useful in diagnosing and preventing

gonococcal infections, is non-toxic in E. coli.

DERWENT CLASS: B04 D16

INVENTOR(S): GOLDSTEIN, N; TACKNEY, C; GOLDSTEIN, N I; TACKNEY,

CT

(IMCL-N) IMCLONE SYSTEMS INC PATENT ASSIGNEE(S):

COUNTRY COUNT: 25

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LAPG

WO 9216643 A1 19921001 (199242)\* EN 63

RW: AT BE CH DE DK ES FR GB GR IT LU MC NL SE

W: AU CA FI HU JP KR NO RO RU

AU 9217492 A 19921021 (199303)

EP 575553 A1 19931229 (199401) EN

R: AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

JP 06507545 W 19940901 (199439)

A4 19950705 (199617) EP 575553

US 5547670 A 19960820 (199639)

EP 575553 B1 19981216 (199903) EN

R: AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

DE 69227898 E 19990128 (199910)

CA 2105382 C 19990119 (199914)

T3 19990416 (199922) ES 2127217

# APPLICATION DETAILS:

PAT	CENT NO	KIND			API	PLICATION	DATE
WO	9216643	A1			WO	1992-US2090	19920313
AU	9217492	Α			AU	1992-17492	19920313
					WO	1992-US2090	19920313
EР	575553	<b>A1</b>			EP	1992-910113	19920313
					WO	1992-US2090	19920313
JР	06507545	W			JP	1992-509343	19920313
					WO	1992-US2090	19920313
ΕP	575553	A4			EP	1992-910113	3
US	5547670	Α	Cont	of	US	1991-669528	3 19910314
					US	1993-124369	19930920
ΕP	575553	B1			EP	1992-910113	19920313
					WO	1992-US2090	19920313
DE	69227898	E			DE	1992-627898	19920313
				Searcher	:	Shears	308-4994

		EP 1992-910113 19920313
		WO 1992-US2090 19920313
CA 2105382	С	CA 1992-2105382 19920313
ES 2127217	<b>T</b> 3	EP 1992-910113 19920313

# FILING DETAILS:

PAT	TENT NO	KIND			PAT	TENT NO
AU	9217492	A	Based	on	WO	9216643
	575553		Based		WO	9216643
JP	06507545	W	Based	on	WO	9216643
EP	575553	<b>B1</b>	Based	on	WO	9216643
DE	69227898	E	Based	on	ΕP	575553
			Based	on	WO	9216643
ES	2127217	Т3	Based	on	ΕP	575553

PRIORITY APPLN. INFO: US 1991-669528 19910314; US 1993-124369 19930920

AN 1992-349224 [42] WPIDS

AB WO 9216643 A UPAB: 19931115

Polypeptide (I) comprises at least 1 antigenic sequence present in P.IA and at least 1 antigenic sequence present in P.IB of N. gonarheae. It is non-toxic in E. coli. Also new are:- (1) detection of the presence of antibodies specific for P.IA and those specific for P.IB of N. gonorrheae in a sample comprising:- (a) incubating the sample with (I); and (b) detecting the presence of antibody bound to (I); (2) immunisation of a mammal simultaneously against N. gonorrheae serovars IA and IB comprising administering an effective amt. of (I); (3) a vaccine compsn. comprising an effective amount of (I) in a pharmaceutically acceptable medium; and (4) a DNA molecule encoding (I).

USE/ADVANTAGE - (I) is useful in vaccines for the prevention of diseases caused by gonococcal infections, e.g. gonorrhea. In addn. it can be used to diagnose such infections.

In an example mice are hyperimmunised with GC26 to show the efficacy of the chimeric polypeptide (I) to induce anti-P.IA and P.IB humoral response. Bacterial cells contg. the construct are washed and lysed. Protein concn. is determined and 100 mg of (I) or PATH vector alone is injected into female Balb/c mice (8-10 weeks old) along with complete Freund's adjuvant. A 2nd injection of 100 mg is given at 7 days with incomplete Freund's adjuvant and a find injection of 100 mg at 21 days. 7 days after the find injection the animals are bled from the retro-orbital socket of the eye, and the sera isolated by centrifugation. Time of anti-P.IA and P.IB humoral response is determined by ELISA using goat-anti-mouse Ig conjugated to horseradish peroxidase with a suitable chromagen Dwg.0/0

ABEQ US 5547670 A UPAB: 19961004

A polypeptide that is non-toxic in E. coil wherein the polypeptide comprises a sequence of P.IA of N. gonorrhoeae wherein the sequence is limited to the 25 amino acid sequence given in the specification and a sequence of P.IB of N. gonorrhoeae wherein the sequence is limited to the 27 amino acid sequence given in the specification.

Dwg.0/5

L7 ANSWER 12 OF 24 WPIDS COPYRIGHT 2000 DERWENT INFORMATION LTD

ACCESSION NUMBER:

1992-299974 [36] WPIDS

CROSS REFERENCE:

1999-008809 [01]

DOC. NO. NON-CPI:
DOC. NO. CPI:

N1992-229717 C1992-133797

TITLE:

Polypeptide(s) encoded by PILC1 or PILC2

of NEISSERIA GONORRHOEAE - for

diagnosis of and vaccination against NEISSERIA

infections.

DERWENT CLASS:

B04 D16 S03

INVENTOR(S):

JONSSON, A; NORMARK, S

PATENT ASSIGNEE(S):

(UNIW) UNIV WASHINGTON

COUNTRY COUNT:

35

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG
		. <b></b>		

WO 9213871 A1 19920820 (199236)\* EN 122

RW: AT BE CH DE DK ES FR GB GR IT LU MC NL OA SE

W: AT AU BB BG BR CA CH CS DE DK ES FI GB HU JP KP KR LK LU MG

MN MW NL NO PL RO RU SD SE

AU 9214114 A 19920907 (199249)

# APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9213871	A1	WO 1992-US863	19920131
AU 9214114	A	AU 1992-14114	19920131
		WO 1992-US863	19920131

# FILING DETAILS:

PATENT NO KIND			PATENT NO	
AU 9214114	A Base	d on	WO 9	213871

PRIORITY APPLN. INFO: US 1991-648781 19910131

AN 1992-299974 [36] WPIDS

CR 1999-008809 [01]

AB WO 9213871 A UPAB: 19990107

The following are claimed: (A) a recombinant polynucleotide encoding a polypeptide comprising an immunoreactive epitope of a protein encoded in pilC of Neisseria; (B) a vector comprising a recombinant polynucleotide as in (A); (C) a host cell transformed with a vector as in (B); (D) a recombinant expression system comprising a polynucleotide as in (A) operably linked to a control sequence compatible with a desired host; (E) a cell transformed with a recombinant expression system as in (D); (F) a polypeptide produced by a cell as in (E); (G) a purified polypeptide comprising an immunoreactive epitope of a protein encoded in pilC of Neisseria; (H) a recombinant polypeptide comprising an immunoreactive epitope of a protein encoded in pilC of Neisseria; (I) a compsn. comprising purified polyclonal anti-PilC antibodies, where the pilC is of Neisseria; (J) a compsn. comprising a monoclonal antibody (MAb) directed against an immunoreactive epitope encoded in pilC of Neisseria; (K) an oligomer capable of hybridising to a sequence in pilC of Neisseria, where the oligomer comprises a pilC sequence complementary to at least 6 contiguous nucleotides of pilC; (L) a recombinant polynucleotide comprising a DNA sequence of at least 8 contiguous nucleotides from pilC where the pilC sequence is as shown.

USE - The polynucleotides, polypeptides and antibodies can be used, opt. in the form of kits, in the detection of pilC or anti-pilC antibodies for the diagnosis of pathogenic microorganisms contg. type 4 pil Dwg.0/7

ANSWER 13 OF 24 MEDLINE

DUPLICATE 7

ACCESSION NUMBER:

93095112

MEDLINE

DOCUMENT NUMBER:

93095112

TITLE:

Identification of highly conserved and

species-specific polypeptides of Haemophilus ducreyi.

AUTHOR:

Alfa M J; Yang C L; Slaney L A; Kwok A Y; Ronald A R;

Jay F T

CORPORATE SOURCE:

Department of Medical Microbiology, Faculty of Medicine, University of Manitoba, Winnipeg, Canada..

SOURCE:

JOURNAL OF MEDICAL MICROBIOLOGY, (1992 Dec) 37 (6)

413-9.

Journal code: J2N. ISSN: 0022-2615.

PUB. COUNTRY:

ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199303

AB Chancroid is a sexually transmitted diseased caused by Haemophilus ducreyi. The pathological manifestations of chancroid are unique among Haemophilus species and the virulence factors of H. ducreyi that account for these features have not been identified. Some of these virulence factors may be unique components of H. ducreyi, but

Searcher : Shears

308-4994

attempts to identify H. ducreyi-specific components have been unsuccessful. Four polypeptides -- A, B, C and D of 83, 77, 56 and 28 kDa, respectively--were identified with a panel of nine H. ducreyi-specific monoclonal antibodies (MAbs). Polypeptide C was one of the five major proteins in H. ducreyi and demonstrated micro-heterogeneity in SDS-PAGE. Polypeptides A, B and D were present in only small amounts in whole-cell lysates of H. ducreyi. The relative amounts of A and B varied, suggesting that they may be precursor molecules. The unique polypeptides C and D were not exposed on the surface. Polypeptide C was highly soluble and did not appear to be membrane-bound, whereas polypeptide D appeared to partition with the cytoplasmic membrane and was soluble in Sarkosyl. All four polypeptides appeared to be unique to H. ducreyi since MAbs directed against them did not cross-react with H. influenzae, H. parainfluenzae or Neisseria gonorrhoeae. The mol. wts of all of these polypeptides were conserved throughout 35 clinical isolates collected from 15 cities in eight countries and one reference strain of H. ducreyi that were tested. (ABSTRACT TRUNCATED AT 250 WORDS)

L7 ANSWER 14 OF 24 BIOSIS COPYRIGHT 2000 BIOSIS DUPLICATE 8

ACCESSION NUMBER:

1992:308331 BIOSIS

DOCUMENT NUMBER:

BA94:21481

TITLE:

ENDOGLUCANASE A FROM CELLULOMONAS-FIMI IN WHICH THE HINGE SEQUENCE OF HUMAN IGA1 IS SUBSTITUTED FOR THE LINKER CONNECTING ITS TWO DOMAINS IS HYDROLYZED BY

IGA PROTEASES FROM NEISSERIA-GONORRHOEAE.

AUTHOR(S):

MILLER P B; SHEN H; GILKES N R; KILBURN D G; MILLER R

C JR; PLAUT A G; WARREN R A J

CORPORATE SOURCE:

DEP. MICROBIOL., UNIV. BRITISH COLUMBIA, 300-6174 UNIVERSITY BLVD., VANCOUVER, B.C. CAN. V6T 1Z3.

SOURCE:

FEMS (FED EUR MICROBIOL SOC) MICROBIOL LETT, (1992)

92 (2), 199-203.

CODEN: FMLED7. ISSN: 0378-1097.

FILE SEGMENT: LANGUAGE: BA; OLD English

The hinge in IgA1 and the linker in endoglucanase A (CenA) are quite similar. The IgA1 hinge is 18 amino acids long and contains only proline, threonine and serine. The linker in CenA is 27 amino acids long and contains only proline, threonine and a single serine. IgA proteases from Neisseria gonorrhoeae cleave Pro-Ser and Pro-Thr bonds within the IgA1 hinge sequence, but they do not attack CenA. When the linker sequence of CenA is replaced with the hinge sequence of IgA1, the hybrid polypeptide is susceptible to the

N. gonorrhoeae proteases. It is cleaved within the hinge sequence at the same sites as IgA1.

L7 ANSWER 15 OF 24 MEDLINE

ACCESSION NUMBER: 92290257 MEDLINE

DOCUMENT NUMBER: 92290257

TITLE: Endoglucanase A from Cellulomonas fimi in which the

hinge sequence of human IgA1 is substituted for the linker connecting its two domains is hydrolyzed by

IgA proteases from Neisseria gonorrhoeae.

AUTHOR: Miller P B; Shen H; Gilkes N R; Kilburn D G; Miller R

C Jr; Plaut A G; Warren R A

CORPORATE SOURCE: Department of Microbiology, University of British

Columbia, Vancouver, Canada.

CONTRACT NUMBER: DE60811 (NIDCR)

P30-DK34928 (NIDDK)

SOURCE: FEMS MICROBIOLOGY LETTERS, (1992 Apr 15) 71 (2)

199-203.

Journal code: FML. ISSN: 0378-1097.

PUB. COUNTRY: Netherlands

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199209

The hinge in IgA1 and the linker in endoglucanase A (CenA) are quite similar. The IgA1 hinge is 18 amino acids long and contains only proline, threonine and serine. The linker in CenA is 27 amino acids long and contains only proline, threonine and a single serine. IgA proteases from Neisseria gonorrhoeae cleave Pro-Ser and Pro-Thr bonds within the IgA1 hinge sequence, but they do not attack CenA. When the linker sequence of CenA is replaced with the hinge sequence of IgA1, the hybrid polypeptide is susceptible to the N. gonorrhoeae proteases. It is cleaved within the hinge sequence at the same sites as IgA1.

L7 ANSWER 16 OF 24 MEDLINE DUPLICATE 9

ACCESSION NUMBER: 89339726 MEDLINE

DOCUMENT NUMBER: 89339726

TITLE: Immunological characterization of a human homolog of

the 65-kilodalton mycobacterial antigen.

AUTHOR: Dudani A K; Gupta R S

CORPORATE SOURCE: Department of Biochemistry, McMaster University,

Hamilton, Ontario, Canada.

SOURCE: INFECTION AND IMMUNITY, (1989 Sep) 57 (9) 2786-93.

Journal code: GO7. ISSN: 0019-9567.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

ENTRY MONTH: 198911

AB A human mitochondrial protein, designated P1 (63 kilodaltons [kDa], shows extensive sequence homology (47% identical residues and an additional approximately 20% conserved changes) to the 65-kDa mycobacterial antigen. To understand the relationship of these

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proteins, the cross-reactivity of several monoclonal antibodies directed against the 65-kDa Mycobacterium leprae antigen towards human, Chinese hamster, chicken, and bacterial cells has been examined. A number of antibodies (Y1-2, ML 30-A2, and F47-9-1) were found to cross-react with a 63-kDa antigen in vertebrate cell extracts and stained mitochondria in immunofluorescence studies. Some of these antibodies also reacted with a P1-beta-galactosidase fusion protein in recombinant Escherichia coli cells, expressing part of the human P1 protein. These results provide strong evidence that P1 is the mammalian homolog of the 65-kDa antigen. The human P1 protein also shows significant similarity (P less than 0.001) to a number of other bacterial and viral proteins including the pol polyprotein of human immunodeficiency viruses and the penicillin-binding protein of Neisseria gonorrhoeae. The observed similarity between human P1 protein and the major antigenic proteins of pathogenic organisms (e.g., 60- to 65-kDa mycobacterial antigen) suggests its possible involvement in autoimmune diseases (e.g., rheumatoid arthritis) by antigenic mimicry.

ANSWER 17 OF 24 BIOSIS COPYRIGHT 2000 BIOSIS L7

ACCESSION NUMBER: 1989:18850 BIOSIS

DOCUMENT NUMBER:

BR36:6527

TITLE:

SEQUENCE ANALYSIS OF VARIANT PILIN GENES FROM

NEISSERIA-GONORRHOEAE P9 AND

IMMUNOLOGICAL PROPERTIES OF PILIN POLYPEPTIDES ENCODED BY CLONED GENES IN

ESCHERICHIA-COLI.

AUTHOR (S):

NICOLSON I J; PERRY A C F; HECKELS J E; SAUNDERS J R DEP. MICROBIOL., UNIV. LIVERPOOL, LIVERPOOL, UK.

CORPORATE SOURCE:

SOURCE:

POOLMAN, J. T., ET AL. (ED.). GONOCOCCI AND

MENINGOCOCCI: EPIDEMIOLOGY, GENETICS, IMMUNOCHEMISTRY

AND PATHOGENESIS; 5TH INTERNATIONAL PATHOGENIC

NEISSERIAE CONFERENCE, NOORDWIJKERHOUT, NETHERLANDS,

SEPTEMBER 15-18, 1986. XV+842P. KLUWER ACADEMIC

PUBLISHERS: DORDRECHT, NETHERLANDS; BOSTON,

MASSACHUSETTS, USA. ILLUS, (1988) 0 (0), 289-296.

ISBN: 90-247-3607-2.

FILE SEGMENT:

BR; OLD

LANGUAGE:

English

ANSWER 18 OF 24 MEDLINE

DUPLICATE 10

ACCESSION NUMBER: DOCUMENT NUMBER:

89039253

89039253

TITLE:

Nucleotide sequence of the structural gene for class

I pilin from Neisseria meningitidis: homologies with

the pilE locus of Neisseria gonorrhoeae.

MEDLINE

AUTHOR:

Potts W J; Saunders J R

CORPORATE SOURCE:

Department of Microbiology, University of Liverpool,

308-4994 Shears :

UK.

SOURCE: MOLECULAR MICROBIOLOGY, (1988 Sep) 2 (5) 647-53.

Journal code: MOM. ISSN: 0950-382X.

PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals OTHER SOURCE: GENBANK-X07731

ENTRY MONTH: 198902

The nucleotide sequence has been determined for the expressed pilin (pilE) locus of Neisseria meningitidis strain C311 which produces class I pili that are antigenically and structurally similar to those of gonococci. The deduced amino acid sequence of the N. meningitidis pilE translation product contains a 7 amino acid N-terminal pre-pilin leader sequence which is identical to that found in gonococcal pilin and which is characteristic of N-methylphenylalanine pili in general. The succeeding N-terminal 53 amino acids are identical to those found in the equivalent position in antigenically variant gonococcal pilins and confirm direct peptide sequencing of the amino-terminus of at least one type of meningococcal pilin. Other regions that are conserved in variant pilin polypeptides from Neisseria

gonorrhoeae are conserved at the amino acid level in the class I meningococcal pilin but the coding DNA contains numerous base substitutions when compared with the equivalent gonococcal pil sequence. Sequences extending downstream for about 140 bp on the 3' side of the coding region for both pilin genes are only about 85% homologous.

L7 ANSWER 19 OF 24 MEDLINE DUPLICATE 11

ACCESSION NUMBER: 87168186 MEDLINE

DOCUMENT NUMBER: 87168186

TITLE: Gene conversion variations generate structurally

distinct pilin polypeptides in

Neisseria gonorrhoeae.

AUTHOR: Swanson J; Robbins K; Barrera O; Koomey J M

CONTRACT NUMBER: AI-10615 (NIAID) AI-19469 (NIAID)

SOURCE: JOURNAL OF EXPERIMENTAL MEDICINE, (1987 Apr 1) 165

(4) 1016-25.

Journal code: I2V. ISSN: 0022-1007.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals; Cancer Journals

ENTRY MONTH: 198707

AB Pilus+ to pilus- phenotype change occurs in Neisseria gonorrhoeae through gene conversion of the gonococcus' complete, expressed pilin gene by nucleotides homologous to the pils1 copy 5 partial pilin

gene; assembly missense pilin is synthesized but pili are not. Reversion to pilus+ occurs by a subsequent recombinational event that replaces the complete pilin gene's pilS1 copy 5-like sequence with nucleotides from a different partial gene to effect expression of an orthodox (i.e., pilus producing) pilin. Sibling pilus+ revertants of common parentage can carry different sequences in their expressed pilin genes because they have undergone nonidentical gene conversion events such as recombinations with sequences from different partial genes, or recombinations with different length nucleotide stretches of the same partial gene; either can yield structurally and antigenically variant pilin polypeptides.

L7 ANSWER 20 OF 24 BIOSIS COPYRIGHT 2000 BIOSIS

ACCESSION NUMBER:

1986:234250 BIOSIS

DOCUMENT NUMBER:

BR30:116746

TITLE:

ISOLATION AND CHARACTERIZATION OF A FRAGMENT REQUIRED

FOR AUTONOMOUS REPLICATION OF THE BETA LACTAMASE

PLASMID PFA-3.

AUTHOR(S):

GILBRIDE K A; BRUNTON J L

CORPORATE SOURCE:

UNIV. TORONTO, TORONTO, ONTARIO.

SOURCE:

86TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY, WASHINGTON, D.C., USA, MAR. 23-28, 1986. ABSTR ANNU MEET AM SOC MICROBIOL, (1986) 86

(0), 155.

CODEN: ASMACK. ISSN: 0094-8519.

DOCUMENT TYPE:

Conference BR; OLD

FILE SEGMENT: LANGUAGE:

English

L7 ANSWER 21 OF 24 MEDLINE DUPLICATE 12

ACCESSION NUMBER:

86149857 MEDLINE

DOCUMENT NUMBER:

86149857

TITLE:

Polypeptides encoded by cryptic plasmids

from Neisseria gonorrhoeae.

**AUTHOR:** 

Aalen R B; Gundersen W B

SOURCE:

PLASMID, (1985 Nov) 14 (3) 209-16. Journal code: P8P. ISSN: 0147-619X.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198606

AB Almost all clinical isolates of Neisseria gonorrhoeae harbor a small, phenotypically cryptic plasmid of approximately 4.1 kb. In this study several polypeptides encoded by two variants of such plasmids, one (pSB01C) having a deletion of approximately 50 bp as compared to the other (p31788C), have been identified, and the position of the genes for two of the proteins determined. The cryptic plasmids were cloned into the HindIII site of the vectors

Searcher :

Shears 308-4994

pBR322 and pACYC184. The resulting recombinant plasmids were transformed into the Escherichia coli minicell producing strain DS410 (minA, minB) and the plasmid-encoded proteins analyzed by sodium dodecyl sulfate-polyacrylamide gel electrophoresis. The pSB01C derivatives express two distinct proteins of 22 and 16 kDa and p31788C two other proteins of 24 and 18.5 kDa. Additionally, both plasmids express common proteins of 32.5, 9, and 7.5 kDa. The genes coding for the 24- and the 7.5 kDa proteins have been mapped by restriction enzyme analysis of Tn5 insertions suppressing the expression. The additional 50 bp in p31788C are localized to the coding region of the 24-kDa protein, and the 22-kDa protein of pSB01C is possibly a shortened form of the former due to the lacking 50 bp.

ANSWER 22 OF 24 BIOSIS COPYRIGHT 2000 BIOSIS L7

ACCESSION NUMBER: 1984:10780 BIOSIS

DOCUMENT NUMBER: BR26:10780

IDENTIFICATION AND COMPARISON OF 3 NEISSERIAL IMMUNO TITLE:

GLOBULIN PROTEASES.

STAFFORD D C; MULKS M H; PLAUT A G AUTHOR (S):

DEPARTMENT OF MEDICINE, TUFTS-NEW ENGLAND MEDICAL CORPORATE SOURCE:

CENTER, BOSTON MASS. 02111.

83RD ANNUAL MEETING OF THE AMERICAN SOCIETY FOR SOURCE:

MICROBIOLOGY, NEW ORLEANS, LA., USA, MAR. 6-11, 1983.

ABSTR ANNU MEET AM SOC MICROBIOL, (1983) 83 (0),

B126.

CODEN: ASMACK. ISSN: 0094-8519.

DOCUMENT TYPE:

BR; OLD FILE SEGMENT:

LANGUAGE: English

ANSWER 23 OF 24 MEDLINE **DUPLICATE 13** 

ACCESSION NUMBER: 80020331 MEDLINE

DOCUMENT NUMBER: 80020331

Antigenic subunit of the polypeptide TITLE:

antigenic complex of the Melvin strain of

Neisseria gonorrhoeae.

Conference

Karkhanis Y D; Anderson R L; Zeltner J Y; Maigetter R **AUTHOR:** 

Z; Carlo D J; Stoudt T H

BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, SOURCE:

(1979 Jul 27) 89 (2) 750-8.

Journal code: 9Y8. ISSN: 0006-291X.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198001

**DUPLICATE 14** L7 ANSWER 24 OF 24 MEDLINE

> Shears 308-4994 Searcher

ACCESSION NUMBER:

80026436

MEDLINE

DOCUMENT NUMBER:

80026436

TITLE:

Antigenic polypeptide complex from the

Melvin strain of Neisseria

gonorrhoeae: isolation and properties.

AUTHOR:

Karkhanis Y D; Anderson R L; Zeltner J Y; Carlo D J;

Stoudt T H

SOURCE:

INFECTION AND IMMUNITY, (1979 Aug) 25 (2) 635-44.

Journal code: GO7. ISSN: 0019-9567.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

198002

FILE 'CAPLUS' ENTERED AT 15:13:28 ON 18 APR 2000

L8

1 SEA ABB=ON PLU=ON (PTLZ OR P TLZ) (W) NGHTR? OR PTLZNGHTR

claim 44

? OR P TLZNGHTR?

L9

O SEA ABB=ON PLU=ON L8 NOT L5

FILE 'MEDLINE, BIOSIS, EMBASE, LIFESCI, WPIDS, CONFSCI, SCISEARCH,

JICST-EPLUS' ENTERED AT 15:14:20 ON 18 APR 2000

L10

0 SEA ABB=ON PLU=ON L8

FILE 'HOME' ENTERED AT 15:14:50 ON 18 APR 2000